

ABSTRACT OF DISCLOSURE

A liquid crystal display (LCD) and a driving method thereof, which synchronize a panel with an inverter to prevent backlights from being turned off during a display mode change. The LCD includes a signal converter to convert selectively input analogue video signals into digital video signals according to a predetermined sampling clock, a scaler to sample the digital video signals output from the signal converter at a preset resolution according to a predetermined sampling clock and to extract a horizontal synchronization signal from the sampled digital video signals, an inverter to drive backlights in synchronization with the horizontal synchronization signal extracted by the scaler, a panel driver to receive the sampled digital video signals in a predetermined signal format and to display the received signals on a liquid crystal panel, and a controller to detect the horizontal synchronization signal from the input video signals to determine a display mode, to output sampling clock signals to the signal converter and the scaler according to the display mode, and to generate inverter on/off signals whenever the display mode is changed.